1. A fastener installation tool for installing a threaded nut with a non-circular external surface onto a threaded fastener of the type having a non-circular recess in an end of the fastener that matingly engages with a male member that has a complementary shaped non-circular tip end to the non-circular recess, the fastener installation tool comprising:

a head;

a rotatably operable gear disposed within the head, the gear having a non-circular bore;

a socket, the socket having a non-circular seat configured to matingly engage the non-circular nut that has a complementary shaped non-circular external shape to the non-circular seat;

the socket having a shaft with a non-circular external surface and a tubular bore internal surface, the shaft matingly engaged within the bore of the gear having a complementary shaped non-circular shape to the non-circular external surface of the shaft;

a key, the key having a shank with a non-circular external surface and a tip end with a non-circular external surface, the shank of the key being disposed within the tubular bore of the shaft;

the tip end being configured to matingly engage with a complementary shaped non-circular recess in the fastener of the type having the non-circular recess in the end of the fastener;

a key holder having a non-circular aperture that matingly engages the shank of the key having a complementary shaped non-circular shape to the non-circular aperture, the key holder being attached to the exterior surface of the head; and

a spring having one end of the spring attached to the key and another end of the spring attached to the head.

- 2. The fastener installation tool of claim 1 further comprising a tool component attached to the head.
- 3. The fastener installation tool of claim 1 wherein the exterior surface of the shaft has an annular groove disposed around the circumference of the shaft.
- 4. The fastener installation tool of claim 3 further comprising a ring seated within the annular groove which locks the socket to the gear.
- 5. The fastener installation tool of claim 1 wherein the key has a bore located adjacent to an end of the key opposite to the tip end.
- 6. The fastener installation tool of claim 5 wherein the one end of the spring is disposed within the bore and the other end of the spring is attached to the head with a fastener.

- 7. The fastener installation tool of claim 1 wherein the key has a slotted groove disposed in an end of the key opposite to the tip end.
- 8. The fastener installation tool of claim 7 wherein the one end of the spring is disposed within the slotted groove and the other end of the spring is attached to the head with a fastener.
- 9. The fastener installation tool of claim 1 wherein the shank of the key with the non-circular external surface that is matingly engaged with the non-circular aperture of the key holder both have non-circular shapes selected from the group consisting of one or more flats, flutes and splines.
- 10. The fastener installation tool of claim 1 wherein the spring operates to bias the key along a longitudinal axis of the shaft of the socket and retain the key to the fastener installation tool.
- 11. The fastener installation tool of claim 1 wherein the tip end with the non-circular external surface that is configured to matingly engage with the non-circular recess of the fastener both have non-circular shapes selected from the group consisting of one or more flats, flutes and splines.

12. A kit for retrofitting a fastener installation tool that is used to install a threaded nut with a non-circular external surface onto a threaded fastener of the type having a non-circular recess in an end of the fastener that matingly engages with a male member that has a complementary shaped non-circular tip end to the non-circular recess, the fastener installation tool comprising:

a head;

a rotatably operable gear disposed within the head, the gear having a non-circular bore;

a socket, the socket having a non-circular seat configured to matingly engage the non-circular nut that has a complementary shaped non-circular external shape to the non-circular seat; and

the socket having a shaft with a non-circular external surface and a tubular bore internal surface, the shaft matingly engaged within the bore of the gear having a complementary shaped non-circular shape to the non-circular external surface of the shaft;

the kit, comprising:

a key, the key having a shank with a non-circular external surface and a tip end with a non-circular external surface, the shank of the key being configured to be disposed within the tubular bore of the shaft;

the tip end being configured to matingly engage with a complementary shaped non-circular recess in the fastener of the type having the non-circular recess in the end of the fastener;

a key holder having a non-circular aperture that is configured to matingly engage the shank of the key having a complementary shaped non-circular shape to the non-circular aperture, the key holder being configured to be attached to the exterior surface of the head; and

a spring having one end of the spring configured to be affixed to the key and another end of the spring configured to be attached to the head.

13. A fastener installation tool for installing a threaded nut with a non-circular external surface onto a threaded fastener of the type having a non-circular recess in an end of the fastener that matingly engages with a male member that has a complementary shaped non-circular tip end to the non-circular recess, the fastener installation tool comprising:

a head;

a rotatably operable gear disposed within the head, the gear having a non-circular bore;

a socket, the socket having a non-circular seat configured to matingly engage the non-circular nut that has a complementary shaped non-circular external shape to the non-circular seat;

the socket having a shaft with a non-circular external surface and a tubular bore internal surface, the shaft matingly engaged within the bore

of the gear having a complementary shaped non-circular shape to the noncircular external surface of the shaft;

a key, the key having a shank with a non-circular external surface and a tip end with a non-circular external surface, the shank of the key being disposed within the tubular bore of the shaft;

the tip end being configured to matingly engage with a complementary shaped non-circular recess in the fastener of the type having the non-circular recess in the end of the fastener;

a key holder having a non-circular aperture that matingly engages the shank of the key having a complementary shaped non-circular shape to the non-circular aperture, the key holder being attached to the exterior surface of the head;

a spring having one end of the spring attached to the key and another end of the spring attached to the head; and

a tool component attached to the head for rotatably operating the gear.

- 14. The fastener installation tool of claim 13 wherein the exterior surface of the shaft has an annular groove disposed around the circumference of the shaft.
- 15. The fastener installation tool of claim 14 further comprising a ring seated within the annular groove which locks the socket to the gear.